

# MODE SWITCH

## How to Create Your Sound !



The SCT™ system allows for the easiest system set-ups ever, and the **mode switch** is the key! Each sub model has different modes, depending on the model. The key is to mate the speakers to the subwoofer by matching the speaker models best suited for each sub. The P1 for example is designed to blend perfectly with the C1 and S1 speakers, however, it can be used with any **athena TECHNOLOGIES™** speaker. See the chart on the next page for a complete list of matching model combinations.

Here's how it works. Dock the speaker to the subwoofer as per the instructions in the owners manual, and set the mode switch to match the model of speaker you have docked to it. If we use a P2 as an example, the Mode Switch choices are: SUB, S2, or S3. This would mean the best speaker match would be either S2, or S3 models.

Once you select the correct mode, 3 things occur:

- 1) The correct crossover frequency for the subwoofer is chosen
- 2) The patented "Subtractive Filter" is engaged
- 3) The Bass Range Control and Blend Switch are defeated.

The benefits of the Mode Switch are:

- 1) By choosing the crossover frequency automatically, this eliminates the confusion of where to set the Bass Range (frequency) Control. The operating frequency range of the sub woofer is inarguably the most important setting, to allow proper blending of the subs and speakers.
- 2) The "Subtractive Filter" is what allows the speaker and sub to have a flat frequency response. There are serious acoustic problems that occur when you take a speaker and sit it on the subwoofer, the baffle size changes for one. This filter is designed to perfectly blend the powered subwoofer section with the passive speaker docked to it. This ensures the newly created power-tower has a flat frequency response. In fact, the frequency response of the sub is tailored so it becomes a "bass extension" system, rather than a subwoofer. This is what allows the **athena TECHNOLOGIES™** speakers to sound musical and powerful when listening to music.
- 3) The Bass Range Control (Frequency) and Blend Switch (Phase) are defeated to simplify the set up procedure.

The end result is a power tower speaker system with a perfectly flat frequency response, that is easy to set up and requires no constant button tweaking. There will be no guesswork as to where to set the controls, because the patented "Subtractive Filter" can perform the adjustments with higher accuracy. All you need worry about is the **Bass Level** control. Adjust it to taste.

It is possible to set the controls manually, but you need to put the Mode Switch into the "Sub" Mode. Instructions for Sub Mode set-up tips are included in the file called "Mode Switch - How to Use it"